

shot. If the guide 112 were thin it would not have this property. Experience has shown that a thickness of about 1/4 inch is very effective for the sight guide 112.

Figure 10 shows details of a third embodiment of the present invention. This embodiment uses the same sighting assembly 74 as the second embodiment of Figure 5 but is mounted to the bow 302 differently. In this embodiment mounting plate 370 is bolted to the bow 302 using bolts 304. Holes 306 can be used to mount a pin sight assembly 1. Adjust of the third embodiment comes from a slider 310 mounted in a slot 308. A set screw 312 can be used to lock the slide 310 in place relative to the slot 308. The slider 310 can carry a mounting plate 379 with a slot 394 that can provide an adjustable mounting for the sighting assembly 74 shown in the embodiment of Figure 5. The embodiment of Figure 10 shows a complete arrangement as might be used on new bows 302 manufactured with the rifle sight as original equipment. Such a bow is likely to include arrangements for mounting a quiver of arrows and for mounting the pin sights. Holes 314 can be used to mount a quiver of arrows(not shown). Slot 394 in plate 379 will support the mast member 110 and sighting assembly 74as shown in the embodiment of Figure 6.

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**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (amended) A bow sight system for use in conjunction with a pin sight the bow sight comprising:  
a base plate for mounting on a bow, the base plate having a front for orienting forwardly on the bow and a rear for orienting rearwardly on the bow, the base plate having a mounting portion for being mounted on the bow and a support portion extending from the mounting portion, the base plate being elongated in a longitudinal direction for the base plate and having a longitudinal axis;  
a sighting assembly having a sight groove for guiding and aiming the bow, the sight groove extending along an axis oriented substantially parallel to the plane of the support plate, the sighting assembly being mounted on the base plate in a manner so that the sighting assembly is adjustably movable with respect to the base plate along an axis that is substantially perpendicular to a plane of the support portion of the base plate to permit adjustment of the position of the sight groove of the sighting assembly in a horizontal direction, the sighting assembly being mounted on the base plate in a manner so that the sighting assembly is adjustably movable in a plane that is oriented substantially perpendicular to the longitudinal axis of the base plate to permit adjustments of the sight groove in a vertical direction when the sighting assembly is mounted on the bow, said sighting groove having a length such that misalignment of the bow will cause a portion of the groove to obscure a view through the groove.
2. (original) The bow sight system of claim 1 additionally comprising a bow string mounted thereon, the bow sight assembly being mounted on the bow in a position rearward of the bow toward the string for orienting toward an archer when the archer draws the string of the bow.

3. (original) The bow sight of claim 2 additionally comprising a pin sight assembly mounted on the bow in a position forward of the bow away from the archer such that the bow is located between the pin sight assembly and the bow sight assembly when the user draws the string of the bow.
4. (original) The bow sight of claim 1 wherein the sighting assembly comprises:  
  
a pedestal slidably mounted on the base plate and having a channel formed therein;  
a mast member mounted on the pedestal with an end portion of the mast member being positioned in the channel of the pedestal such that a position of the mast member in the channel is adjustable, the sight groove being mounted on the mast member.
5. (original) The bow sight system of claim 4 wherein the sight groove has a substantially V-shaped cross section, the sight groove being located near a top edge of a sight guide such that said sight guide will obscure the archer's view below the V shaped cross section.
6. (amended) The bow sight system of claim 5 additionally comprising a pair of alignment marks on the sight guide, each of the alignment marks being located on an opposite side of the sight groove such that a first pin of said pin sight will form a line with said alignment marks when said bow is not in a proper position and wherein at least a second pin of said

7. (original) The bow sight of claim 6 additionally comprising a light assembly being positioned to light the alignment marks such that the alignment marks will be visible in low light conditions.
8. (amended) A bow sight system for improving aiming of an arrow fired by a bow having a forward sight near a forward portion of the bow, the bow sight system comprising:
- a first plate attachable to the bow; a bow sight assembly adjustably mounted to said first plate for adjusting the position of the sight assembly relative to the bow, fasteners to lock the position of the sight assembly relative to the first plate; said bow sight assembly including a rear sight spaced from said forward sight in a direction substantially parallel to a direction of flight of an arrow fired by said bow said rear sight including a pair of alignment marks that align with a pin on said forward sight only when said bow is properly aligned and wherein said pin is obscured when said bow is misaligned.
9. (original) The bow sight of claim 8 wherein the rear sight has a V-shape such that an archer can sight the forward sight through the V.
10. (original) The bow sight of claim 8 wherein the rear sight is a groove having a front edge visible to an archer and a rear edge, a distance from the front edge to the rear edge defining a thickness of the rear sight such that a misalignment of an eye of the archer relative to the rear sight will obscure the archer's view of the front sight through the rear sight.
11. (original) The bow sight of claim 10 wherein the groove has a V shaped cross section and wherein the front sight is a pin sight.
12. (amended) The bow sight of claim 11 ~~including a pair of~~ wherein said
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- alignment marks are on either side of the groove.

13. (original) The bow sight of claim 12 including a light mounted for movement with said bow sight assembly, said light illuminating said alignment marks.
14. (amended) A bow sight for use in conjunction with a target pin sight on a bow, the bow sight comprising:  
a base plate for mounting on a bow;  
a sighting assembly mounted on the base plate in a manner such that the sighting assembly is adjustably movable with respect to the base plate along an axis perpendicular to the base plate; said sighting assembly configured to be mounted on the bow at a distance from said pin sight and wherein said sighting assembly includes a block with a sight groove having a length in said direction such that an archer's view through said groove will be obscured by the block if said groove is turned.
15. (cancel)
16. (original) The bow sight of claim 15 wherein the groove is a V notch.
17. (amended) The bow sight of claim 15 including an alignment mark on each side of said groove that form a linear pattern with a pin on said forward sight when said bow is properly aligned.
18. (original) The bow sight of claim 17 including a light to illuminate said alignment mark on each side of said groove such that the alignment marks are visible in low light.
19. (amended) A bow for firing an arrow comprising a bow having a string; a sight on a front portion of said bow and a sighting groove on a rear portion of said bow such that an archer can sight through said sighting

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